Fraud Detection

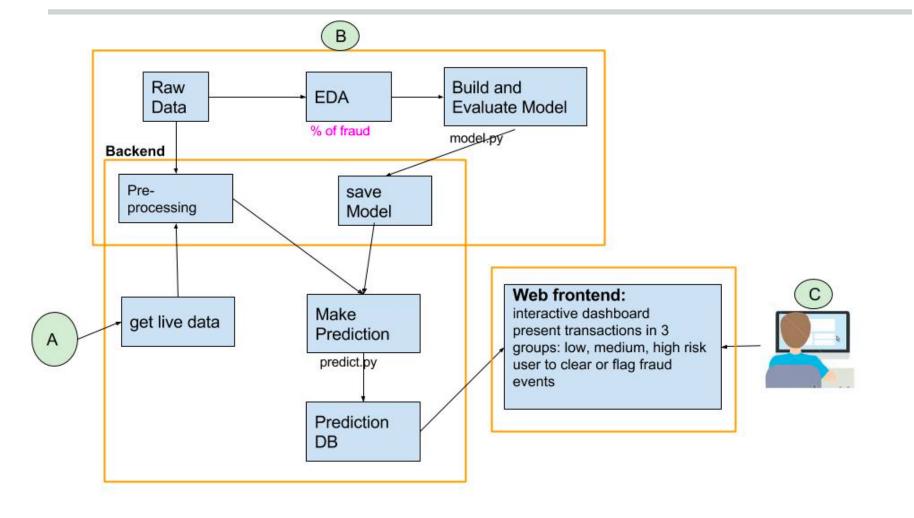
Background

trend of \$amount lost due to fraud in the last # months

Overview

E-commerce site to try to weed out fraudsters

- Web based front-end to for non-technical people to
 - o list transactions in 3 potential fraud groups: low, medium, high risks
 - allow uses to manual review and clear or flag fraud events
 - detailed information of the event/account to help with manual review
 - visualization of trend
- Predictive model to flag events needing further review (how likely an event likely to be fraud; \$ likely to lost)



Scope

register your service at POST /register??? accept records /scoe

Flask app: Jinja2

AWS instance

Cost - Benefit Matrix

Actual Class

Predicted Class

		Fraud	Not Fraud
	Y (Fraud)	true positive 0	false positive decrease customer trust (manual labor followup; customer satisfaction) \$\$?
	N (Not Fraud)	false negative cost money \$\$\$ of merchandize	true negative 0

compared to catching all fraud



Cost - Benefit Matrix

Actual Class

Predicted Class

	Fraud	Not Fraud
Y (Fraud)	true positive Benefit (recover the transaction)	false positive decrease customer trust? Cost (manual labor followup; customer satisfaction)
N (Not Fraud)	false negative \$\$\$ of merchandize	true negative 0

compared to current situation(no fraud detection pipeline)